State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services
KIMBERLY HOOD
Executive Director

Division of Facilities Construction and Management
DAVID G. BUXTON
Director

ADDENDUM

Date: 06-18-2007

To: **Contractors**

From: **Mike Butler Project Manager**
Reference **Division of Oil Gas and Mining**
Department of Natural Resources
Salt Lake City Ut

DFCM Project No. **07262500**

Subject: **Addendum No.1**

Pages:		
	Addendum Cover Page	1 Page
	Architects Clarifications	10 Pages
	Total	11 Pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

SCHEDULE HAS NOT BEEN CHANGED

1.1 Architect Clarifications.

End of Addendum

ADDENDUM

Project Name: DNR Oil, Gas, and Mining Remodel — Addendum No.: 1

DFCM Project # 07262500 (formerly ISF Org no 1604) — Date: 06-18-07

From: WHW Engineering Inc
1354 East 3300 South Suite 200
Salt Lake City, Utah 84106
Phone (80) 466-4021 Fax (801) 466-8536

To: All bidders

This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated May 2007 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 10 pages.

I - CHANGES TO PRIOR ADDENDA: NA

II - CHANGES TO BIDDING REQUIREMENTS: None

III - CHANGES TO AGREEMENT & OTHER CONTRACT FORMS: None

IV – CHANGES/CLARIFICATIONS TO CONDITIONS OF THE CONTRACT: None

V - CHANGES/CLARIFICATIONS TO SPECIFICATIONS:

Item V-1. This contractor shall be responsible to re-locate sprinkler heads, and provide new sprinkler heads where necessary to provide adequate coverage of remodeled area. See attached performance specification 15300.

Item V-2. Specification Section 15900:
The existing building automation system is a Staeffa Talon system by Atkinson Electronics. Please delete all are references to CSI, TAC, or Utah Controls, and replace with Staeffa Talon by Atkinson. New remodel, including all new VAV boxes, thermostats, etc. shall be tied into the existing Staeffa Talon system.

Item V-3. New access control card readers shall match existing Kerry card readers.

VI - CHANGES/CLARIFICATIONS TO DRAWINGS:

Item VI-1. Sheet A201: See attached revised door schedule, and hardware set summary.

Item VI-2. Sheets A101 and A201: There are both interior and exterior windows in this project.

PRIOR APPROVALS

THE FOLLOWING ITEMS, AS SUBMITTED, ARE CONSIDERED, IN GENERAL AND IN NAME ONLY, AS EQUAL TO THOSE ITEMS SPECIFIED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OR SUPPLIER OF THE RESPONSIBILITY OF CONFORMING TO THE DRAWINGS AND SPECIFICATIONS, NOR DOES IT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS FOR COORDINATION WITH OTHER TRADES. ALL DIMENSIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND THE SUITABILITY OF "EQUAL" PRODUCTS FOR THE SPECIFIED APPLICATION.

Description	**Manufacturer**
15820 – volume dampers	Greenheck

SECTION 15300 - FIRE SPRINKLER SYSTEM

PART 1 - GENERAL

This project includes the relocation of the existing sprinklers in the areas being remodeled, and providing new heads as needed for the remodeled space.

1.1 WORK INCLUDED

A. Remodeled areas of existing building shall have the existing fire sprinkler system modified to provide protection as necessary. See Architectural drawings for definition of these areas. Work includes, but is not limited to:

1. Design, drawings, and, if necessary, hydraulic calculations.
2. Materials, equipment, and devices.

    a. Pipe, fittings, hangers, seismic braces.
    b. Sprinklers, escutcheons, signs.
    c. All other materials required for complete installation.

3. Fabrication, installation, and testing.
4. Permits, fees, and documentation.

1.2 RELATED WORK

A. Painting.

B. Electrical Material and Methods.

1.3 WORK NOT INCLUDED

A. Fire extinguishers and cabinets.

B. Painting.

C. Wiring of electrical and alarm devices.

1.4 SYSTEM DESCRIPTION

A. Interior - Remodeled Areas: Relocate and/or add heads as required to the existing system in order to provide coverage in the areas included in this project.

1. Relocate sprinklers as required within the parameters set forth in NFPA 13. Pipe sizing shall match the existing piping.

    a. An existing 1" outlet may be utilized to supply (1) sprinklers maximum.

b. Mechanical tees may be utilized to run additional lines, as necessary.

1) A flexible grooved coupling shall be installed on the new branch within 1 ft of the mechanical tee.

c. Hangers and bracing shall be installed as required by NFPA 13 on new systems.

1.5 QUALITY ASSURANCE

A. Materials, devices, and equipment shall be Underwriters Laboratories listed or Factory Mutual approved for use in fire protection systems.

B. Designer shall be a State of Utah Registered Fire Protection Engineer or a NICET Certified Engineering Technician (Level III or Level IV).

C. Submittals and Shop Drawings shall be stamped by licensed designer.

D. Installer shall be a licensed contractor regularly engaged in the installation of fire sprinkler systems in commercial type buildings.

1.6 REFERENCES

A. NFPA (National Fire Protection Association) 13, "Installation of Sprinkler Systems," 2002.

B. NFPA 24, AStandard for the Installation of Private Fire Service Mains and Their Appurtenances,@ 2002.

C. IBC (International Building Code), 2003.

D. IFC (International Fire Code), 2003.

E. Underwriters Laboratories "Fire Protection Equipment Directory," latest edition.

F. Factory Mutual Systems "Approval Guide," latest edition.

1.7 SYSTEM DESIGN

A. System shall be wet pipe.

B. Design density and area of application.

1. Mechanical, Electrical, and Janitorial: Ordinary Hazard Group 1, 0.15 GPM/SQ FT over 1,500 SQ FT.
2. Storage: Ordinary Hazard Group 2, 0.20 GPM/SQ FT over 1,500 SQ FT.
3. All other areas: Light Hazard, 0.10 GPM/SQ FT over 1,500 SQ FT.
4. Adjustments shall be made in the remote area for sloped ceilings and/or roof decks and for the use of quick response sprinkler heads throughout.

C. Maximum coverage per sprinkler head:

1. Ordinary Hazard areas: 130 SQ FT.
2. Light Hazard areas: 225 SQ FT.
3. Extended coverage sprinklers shall be allowed when installed conforming to the individual listing of the sprinkler head.

D. Vestibules: Provide dry barrel sprinklers to protect areas subject to temperatures less than 40 F.

E. The design area shall be the hydraulically most remote rectangular area having a dimension parallel to the branch line equal to, or greater than, 1.2 times the square root of the area of sprinkler operation.

F. Maximum velocity of water flow within piping: 20 FPS.

G. Flow available:

1. Contractor shall perform all necessary flow tests and calculations.
2. The contractor shall design the sprinkler system to the water supply indicated in the Engineers Water Supply Analysis performed for the project, including all recommendations contained within the Analysis.

H. Provide head guards on any sprinklers installed below 7 ft. above the floor and in areas where the heads are subject to physical damage.

I. Sprinkler heads in areas with folding partitions, curtains, dividers, etc shall be located such that the spacing and clearance shall be maintained whether the partitions are open or closed.

1.8 SUBMITTAL

A. All shop drawings and calculations shall bear the Nicet number and signature of the responsible Nicet Certified Technician or the stamp and signature of the responsible Registered Professional Engineer. Submittals without the proper signature will be returned without review.

B. Submit to local and state Authorities Having Jurisdiction and obtain AHJ's approval, three copies each:

1. Shop drawings.
2. Hydraulic calculations.
3. Copy of contract specification.
4. Equipment catalog sheets for all major equipment.

C. Submit to the Utah State Fire Marshal, three copies each:

1. Shop drawings.
2. Hydraulic calculations.
3. Copy of contract specification.
4. Equipment catalog sheets for all major equipment.

5. One copy of the Water Supply Analysis with date, time and temperature noted.

D. Submit to Architect for review and Architect's acceptance prior to fabrication and installation, five copies each:

1. Shop drawings.
2. Hydraulic calculations.
3. Equipment catalog sheets for all major equipment.
4. One copy of the water flow test with date, time and temperature noted.

E. Upon completion of installation submit to Architect two copies each:

1. NFPA 13, "Contractor's Material & Test Certificate for Aboveground Piping."
2. NFPA 13, "Contractor's Material & Test Certificate for Underground Piping."
3. As-built shop drawings with designer's signature and certification number.

1.9 WARRANTY

A. Materials, equipment, and workmanship shall be free from defects for 12 months from the "Date Left in Service with All Control Valves Open," shown on "Contractor's Material and Test Certificate." If any Work is found to be defective, Contractor shall promptly, without cost to Owner, and in accordance with Owner's instructions, either correct such defective Work, or if Owner has rejected it, remove if from the site and replace it with non-defective work. Submit two copies of Warranty Certificates to Architect.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Sprinkler equipment, heads and devices:

1. Central, Grinnell, Reliable, Star, Victaulic and Viking.

B. Backflow preventer:

1. Ames, Watts

2 .2 PIPE AND TUBE

A. Interior:

1. Ferrous piping, ASTM A795, ANSI/ASTM A53, ASTM A135, ANSI B36-10M, UL CRR (Corrosion Resistance Ratio) minimum 1.0, and copper tube, ASTM B251, Type L or M.

2 .3 FITTINGS

A. Interior.

1. Cast iron threaded, ANSI B16.4.
2. Cast iron flanged, ANSI B16.1.
3. Malleable iron threaded, ANSI B16.3.
4. Forged steel fittings, socket welded and threaded, ANSI B16.11.
5. Copper, ANSI B16.22, B16.18. Joints for connection of copper tube shall be brazed or soldered.
6. Other types of fittings may be used, but only those investigated and listed for fire sprinkler service.
7. Plain end couplings, saddle couplings, and clamp type couplings are not acceptable.

2 .4 HANGERS

A. Hangers shall conform to the minimum requirement of NFPA 13. A detail of each type of hanger shall be shown on the shop drawings and calculations for trapeze type hangers shall be provided with the hydraulic calculations.

2 .5 SEISMIC FITTINGS AND BRACES

A. Seismic bracing shall be installed per the requirements of NFPA 13. Calculations for the seismic bracing shall be provided including all piping within the Aarea of influence@ as described in NFPA 13.

B. Flexible connections shall be provided at the top and bottom of the system riser and at other locations as described in NFPA 13.

2 .6 SPRINKLER HEADS

A. Areas without ceilings: standard upright or pendent, quick response, factory bronze, ordinary temperature.

B. Areas subject to freezing: dry pendent or sidewall, chrome finish, intermediate temperature, with recessed chrome canopy.

C. Sprinklers of intermediate and high temperature ratings in specific locations as required by NFPA 13.

D. Spare heads in representative proportion to types installed and one head wrench for each type sprinkler.

1. Total quantity of spare heads shall be per the requirements of NFPA 13.
2. Spare heads to be contained in a wall mounted cabinet mounted adjacent to the riser.

2 .7 VALVES

A. Drain valves as required by the design and as indicated in NFPA 13.

B. OS&Y Gate Valve with supervisory switch.

C. Butterfly Valve with integral supervisory switch.

D. Four inch swing check valve for FDC.

E. One half-inch ball drip for FDC.

2 .8 ALARM DEVICES

A. Vane Type Water Flow Switch with retard (DPDT).

B. Valve supervisory switch (SPDT).

C. 10" Weatherproof Electric Bell.

PART 3 - EXECUTION

3 .1 INSPECTION

A. Inspect job site prior to fabricating materials. Coordinate and sequence installation with the progress of other mechanical and structural systems and components.

3 .2 INSTALLATION

A. Install systems in compliance with methods detailed in NFPA 13 and NFPA 24, including seismic requirements for Area 1, maximum potential for earthquake damage.

B. Sprinkler heads shall be centered in 2' x 2' ceiling tiles and shall be centered in the 2' dimension and at the quarter, half, or three-quarter point in 2' x 4' ceiling tiles.

C. Where pipes pass through fire rated walls, partitions, ceilings and floors, maintain the fire-rated integrity with listed sealers and materials.

D. Provide chrome-plated escutcheons where exposed pipe passes through walls, ceilings, or other building components.

3 .3 FIELD QUALITY CONTROL

A. Obtain permits and post bonds as required by state and local AHJ's (Authorities Having Jurisdiction).

B. Inform AHJ's of job progress. Request presence of AHJ's, perform tests and document results using Contractor's Material and Test Certificates.

1. Existing piping may be Ablanked-off@ when testing new piping. This contract does not require the testing of work installed by others.

3 .4 DISINFECTION

A. Introduce dosage of 50-ppm chlorine in underground and overhead piping. During the contact period open and close all system valves several times. At end of 24-hour retention period at least 10 ppm shall remain throughout the piping.

B. At end of retention period, flush system until residual chlorine is reduced to less than 1.0 ppm.

3 .5 CLEANING

A. Remove oil, scale, debris, and foreign substances from interior and exterior of devices, equipment, and materials prior to installation.

B. Upon job completion, remove tools, surplus materials and equipment. Leave all areas broom clean.

3 .6 ACCEPTANCE

A. Acceptance of installation is subject to final inspection and approval by:
   1. Architect or his designated representative.
   2. Local Building Department and Fire Marshal.
   3. Utah State Fire Marshal=s Office.

END OF SECTION 15300

Department of Natural Resources
Oil, Gas and Mining Remodel
DFCM ISF Org No 1604

HW SET: 01

DOOR NUMBER:

104A	106A	109A	110A	111A	112A
113A	115A	117A	118A	120A	121A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	OFFICE LOCK	T521P7D DAN	626	FAL
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 02

DOOR NUMBER:
101A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	ENTRY LOCK	T501P7D DAN	626	FAL
1	EA	SURFACE CLOSER	4111 EDA X ST 2730 X TB X MC	689	LCN
1	EA	WALL STOP	WS401CCV	626	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 03

DOOR NUMBER:
102A

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	PASSAGE SET	T101S DAN	626	FAL
1	EA	WALL STOP	WS401CCV	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

DOOR AND FRAME SCHEDULE

DOOR NUMBER	LOCATION	DOORS: DOOR SIZE: WIDTH	HEIGHT	THICKNESS	SINGLE/PAIR	TYPE	MAT'L: WOOD	FRAMES: TYPE	MAT'L: METAL	DEPTH: THROAT DIMENSION	DETAILS (V.R.S. = VINYL REDUCER STRIP): HEAD	JAMB	THRESHOLD	DOOR RATING LABEL	HARDWARE GROUP	NOTES	KICKPLATE	DOOR NUMBER
101A	WAITING	3'-0"	7'-0"	1 3/4"	S	B	W	A	M	4-7/8"	04/06	04/06			SEE SPECIFICATIONS			101A
101B	WAITING	3'-0"	7'-0"	1 3/4"	S	C	W	A	SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		101B
102A	COPPER ROOM	3'-0"	7'-0"	1 3/4"	S	SALVAGED RH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		102A
104A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED LH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		104A
106A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED LH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		106A
109A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED RH DOOR			M	4-7/8"						SEE WINDOW TYPES		109A
110A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED LH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		110A
111A	OFFICE	3'-0"	7'-0"	1 3/4"	S	A	W	A	M	4-7/8"	04/06	04/06				INSTALL NEW PAINT		111A
112A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED RH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		112A
113A	OFFICE	3'-0"	7'-0"	1 3/4"	S	SALVAGED RH DOOR			SALVAGED FRAME		04/06	04/06				INSTALL NEW PAINT		113A
115A	OFFICE	3'-0"	7'-0"	1 3/4"	S	A	W	A	M	4-7/8"	04/06	04/06						115A
117A	OFFICE	3'-0"	7'-0"	1 3/4"	S	B	W		M	4-7/8"						SEE WINDOW TYPES		117A
118A	MANAGER OFFICE	3'-0"	7'-0"	1 3/4"	S	A	W	A	M	4-7/8"	04/06	04/06						118A
120A	OFFICE	3'-0"	7'-0"	1 3/4"	S	B	W		M	4-7/8"						SEE WINDOW TYPES		120A
121A	OFFICE	3'-0"	7'-0"	1 3/4"	S	A	W	A	M	4-7/8"	04/06	04/06						121A